

For Official Use Only

Scenario #1

- Set up
- Location

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For Official Use Only

Scenario #2

- Set up
- Location

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CELL/STD 004395

2

FBI/CELL-208

((O))

For Official Use Only

WTF

# StingRay Lab Exercises

[Redacted]

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WTF

# StingRay Lab Exercises

- Goal
- Agenda

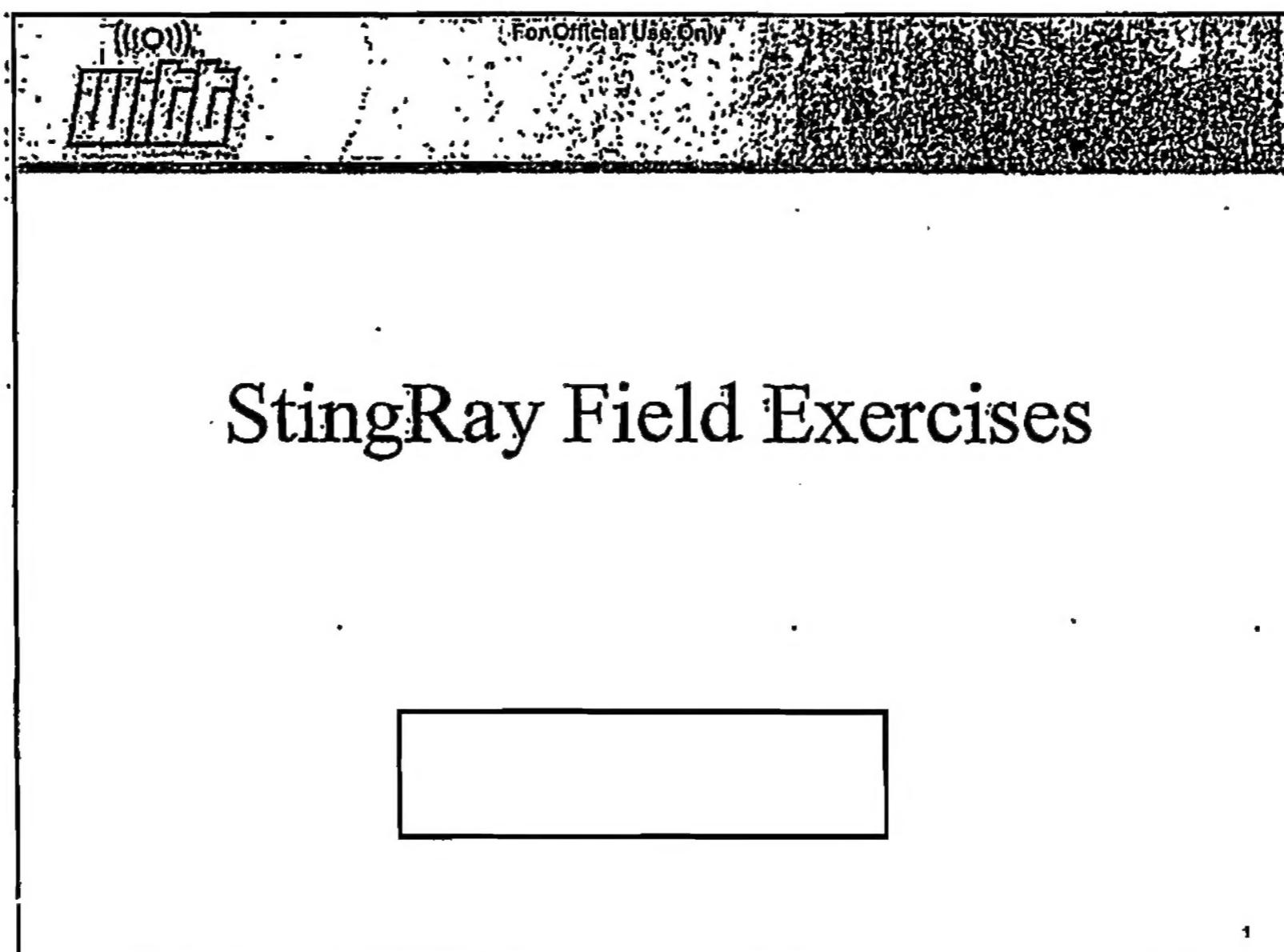
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CELL/GTD 084396

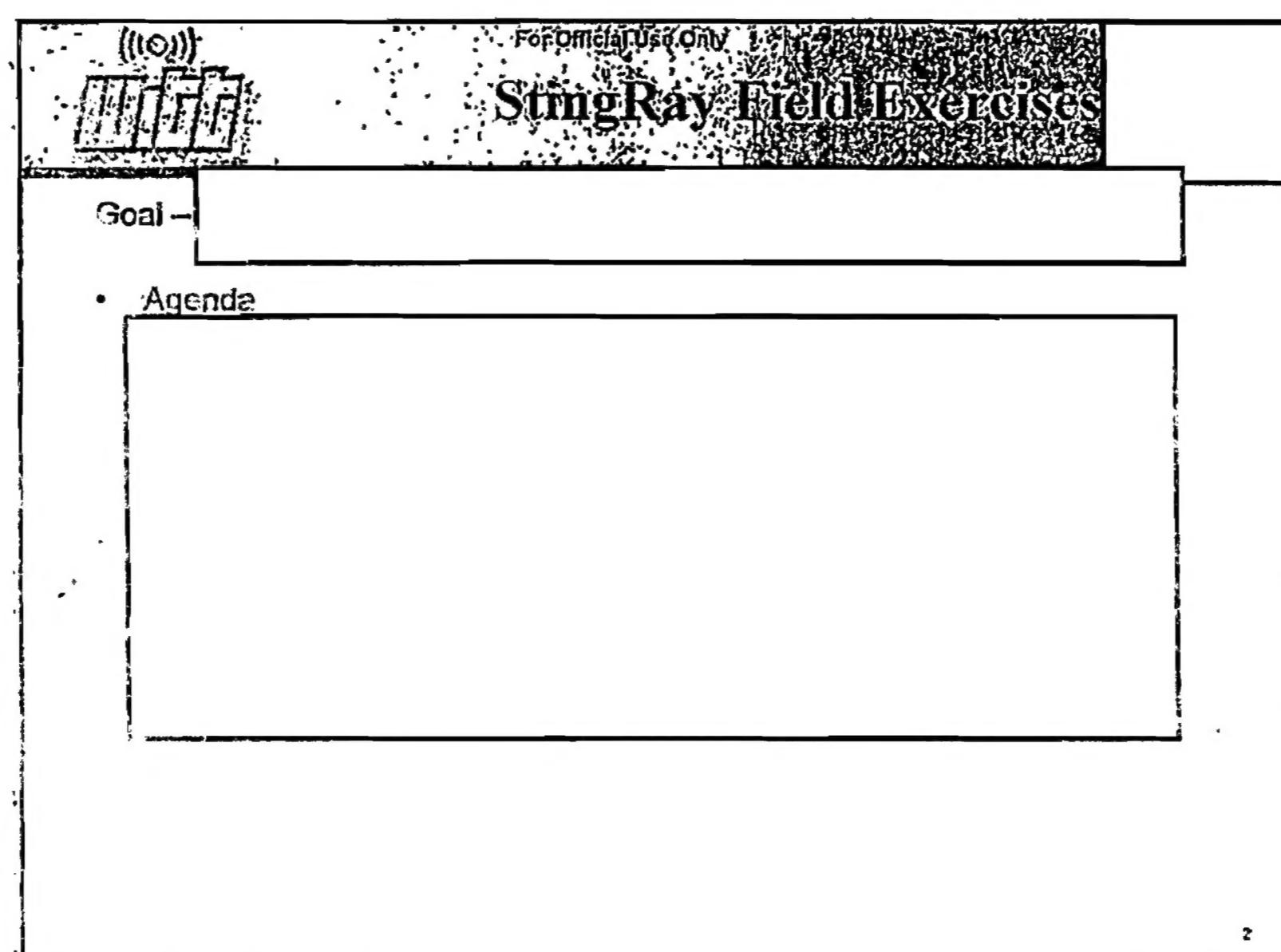
1

FBICELL-209



## StingRay Field Exercises

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CELL/STD 0043

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For Official Use Only

Scenario #3

- Set up
- Location

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For Official Use Only

Scenario #4

- Set up
- Location

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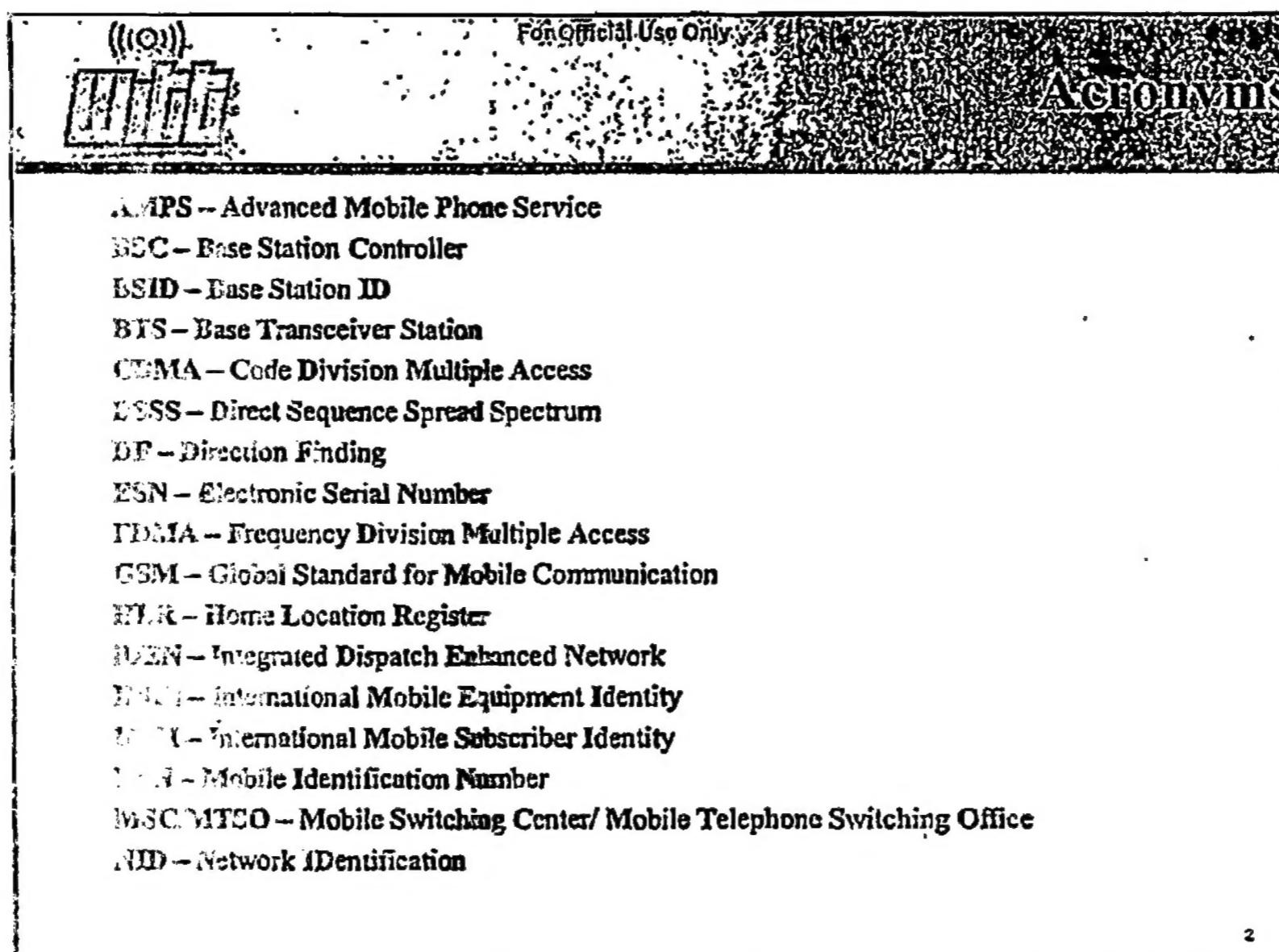
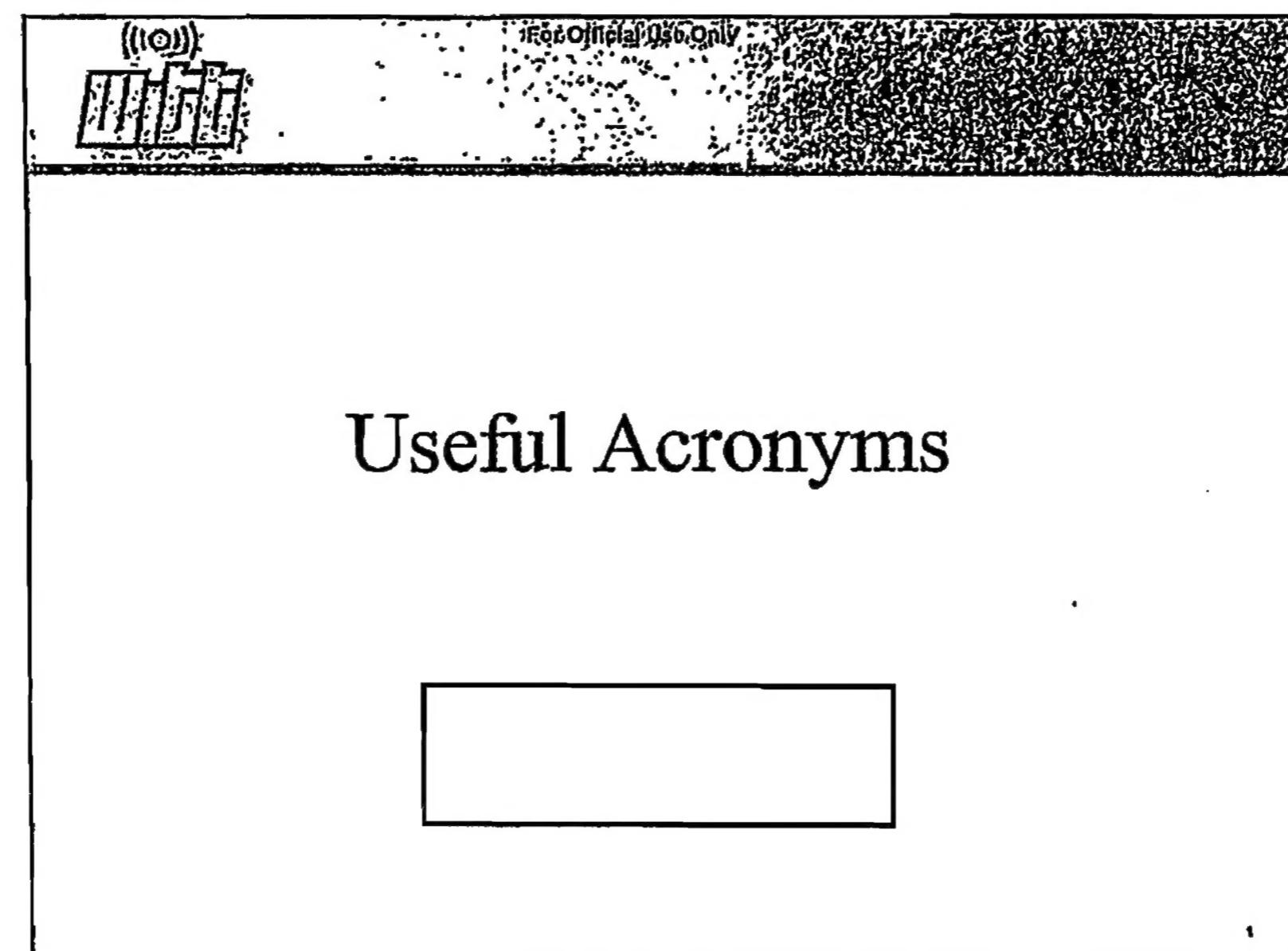
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Appendices



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CELL/GTD 004399

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FBICELL-214

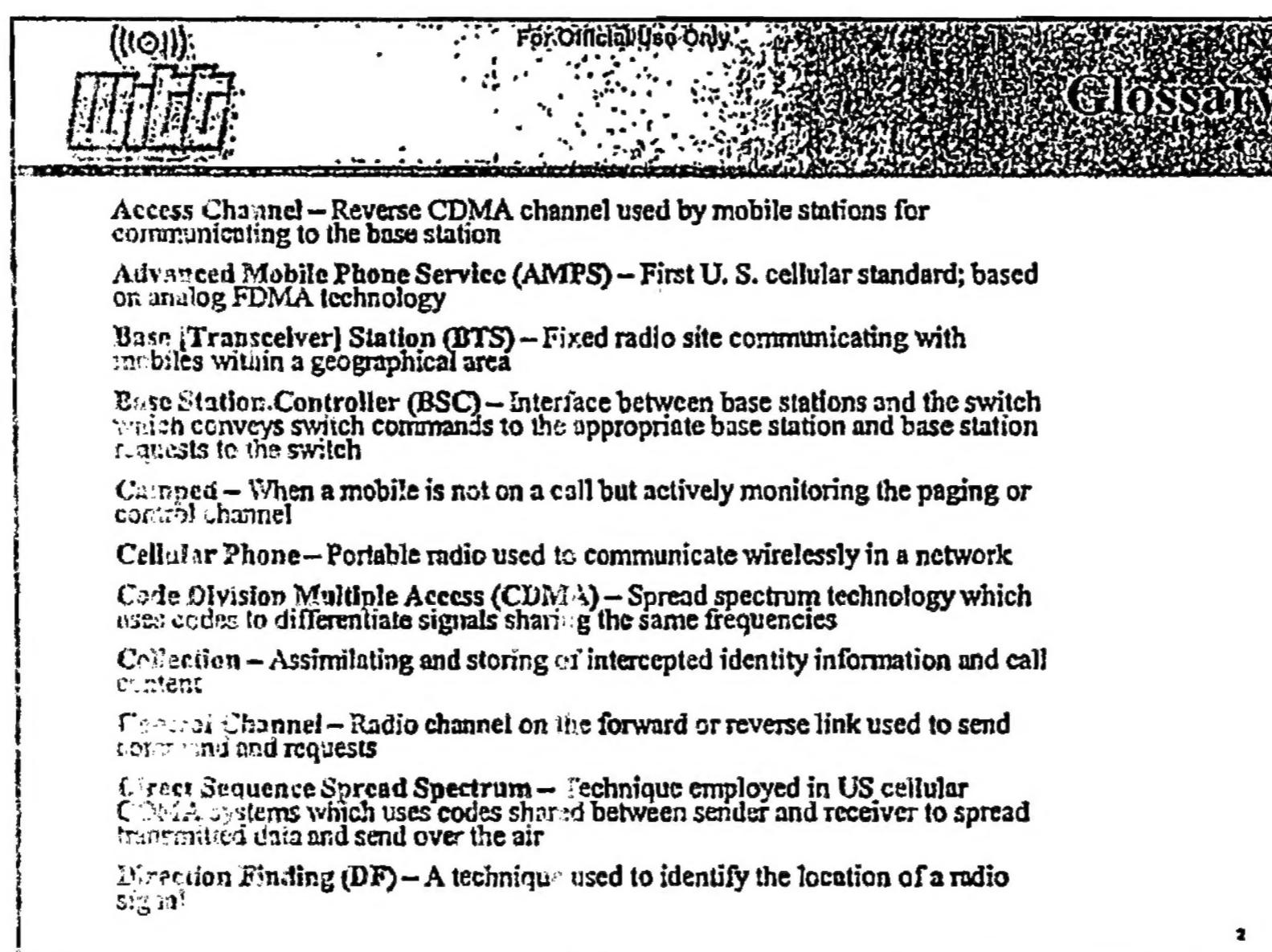
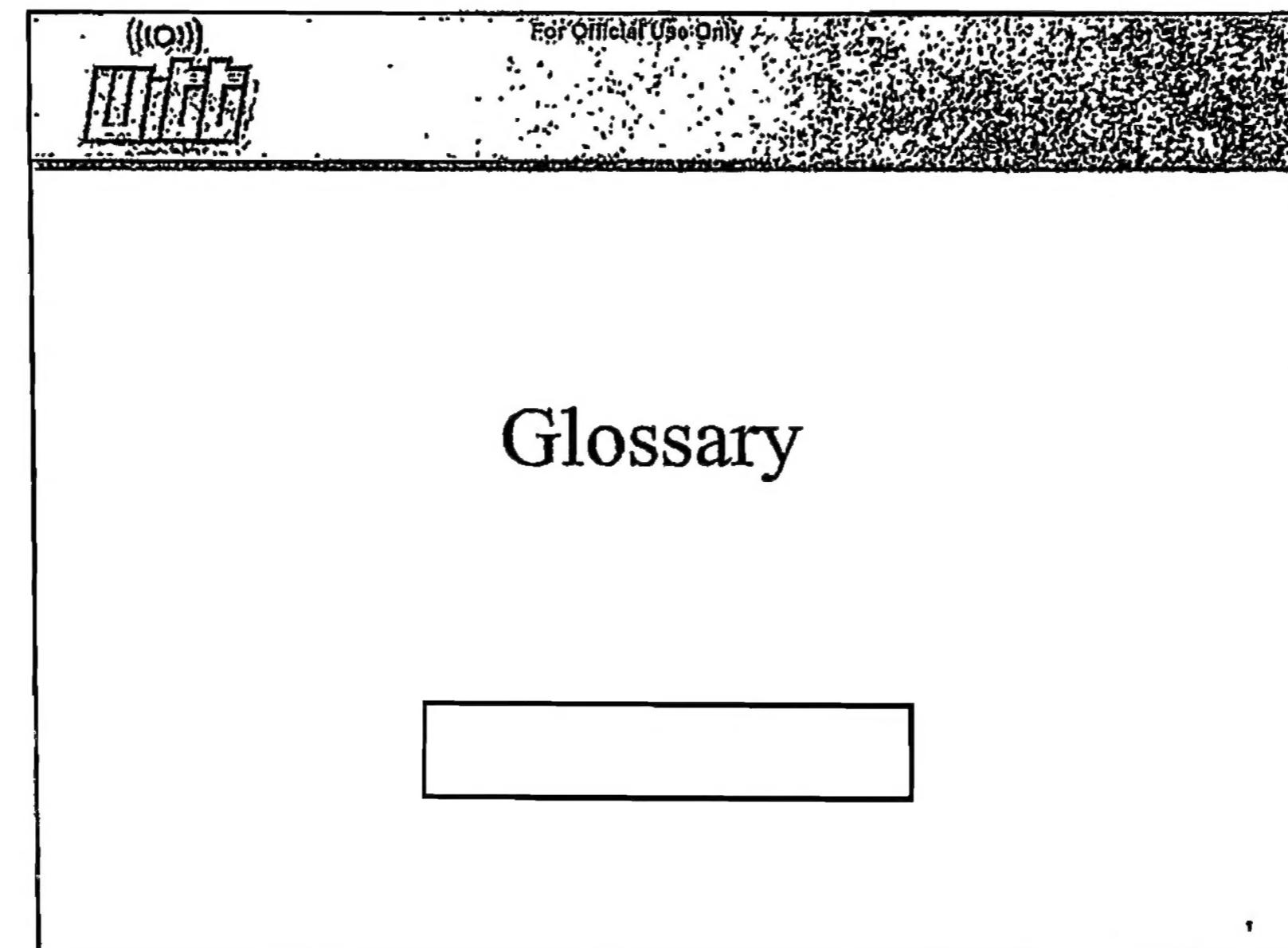
 <b>WITT</b>	For Official Use Only <b>Acronyms Collected</b>
<hr/>	
<b>PA</b> ~ Power Amplifier	
<b>PCS</b> ~ Personal Communications Service	
<b>PN</b> ~ Psuedo Noise	
<b>PSTN</b> ~ Public Switched Telephone Network	
<b>PTT</b> ~ Push-to-Talk	
<b>RF</b> ~ Radio Frequency	
<b>SID</b> ~ System IDentification	
<b>TDMA</b> ~ Time Division Multiple Access	
<hr/>	
<b>TMSI</b> ~ Temporary Mobile Subscriber Identity	
<b>VLR</b> ~ Visitor Location Register	
<b>WITT</b> ~ Wireless Intercept & Tracking Team	

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CELL/OTD 004400

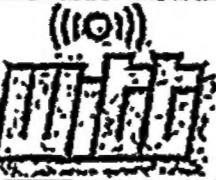
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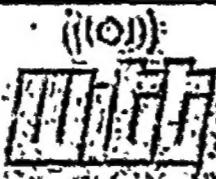
FBICELL-215



SELL/OTD 004401

1

 For Official Use Only <b>Glossary Cont'd</b>	
<b>Downlink</b> – <i>See Forward Link</i>	
<b>Ec/Io</b> – Ratio (in dB) between the Pilot Channel signal energy and the total interference in the received bandwidth	
<b>Electronic Serial Number (ESN)</b> – Unique serial number programmed into the memory of a mobile phone by the manufacturer	
<b>Forward Link</b> – From the base station to the mobile	
<b>Frequency Division Multiple Access (FDMA)</b> – Multiplexing technique which uses frequency to distinguish users	
<b>Global Standard for Mobile Communications (GSM)</b> – Cellular technology utilizing TDMA techniques which originated in Europe	
<b>Home Location Register (HLR)</b> – Database containing mobile subscriber information for locally registered mobiles	
<b>Idle</b> – <i>See Camped</i>	
<b>Integrated Dispatch Enhanced Network (iDEN)</b> – Proprietary cellular technology utilized by Nextel	
<b>Intercept</b> – Reception of communications between a subject and his serving network	
<b>International Mobile Equipment Identity (IMEI)</b> – Code uniquely identifying the mobile station hardware	
<b>International Mobile Subscriber Identity (IMSI)</b> – Method of identifying stations in the land mobile service	

 For Official Use Only <b>Glossary Cont'd</b>	
<b>Handoff</b> – Transferring communication with a mobile station from one base station to another	
<b>Long PN Code</b> – 42-bit pseudo-random code used to uniquely identify CDMA mobile stations on the uplink	
<b>Mobile Identification Number (MIN)</b> – Telephone number associated with a mobile phone	
<b>Mobile Station</b> – <i>See Cellular Phone</i>	
<b>Mobile Switching Center (MSC)</b> – Switch connecting the cellular network to the PSTN which coordinates call routing in a given service area	
<b>Mobile Telephone Switching Office (MTSO)</b> – <i>See Mobile Switching Center</i>	
<b>Multipath</b> – Radio signals from the transmitter arriving at the receiver via a number of different paths	
<b>Neighbor Channel</b> – One of a group channels that are probable candidates for handoff	
<b>Network Identification (NID)</b> – Number uniquely identifying a network within a cellular system	
<b>Paging Channel</b> – Walsh code channel in the CDMA forward channel used for transmission of control information and pages from the base station to the mobile	
<b>Pilot Channel</b> – Signal transmitted continuously by CDMA base stations allowing mobiles to acquire base station timing and assess signal quality	

CELL/OTB 004482

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## Glossary Cont'd

- PN Code Offset** – One of 512 time offset versions of the Short PN Code used to identify CDMA base station sectors in a network
- Power Amplifier (PA)** – Provides gain in a transmitter
- Public Switch Telephone Network (PSTN)** – Collection of interconnected voice-oriented public telephone networks
- Radio Frequency (RF)** – Radio signals between 9 kHz-300 GHz
- Registration** – Process by which a mobile station identifies its location and parameters to a base station
- Reverse Link** – From the mobile to the base station
- Short PN Code** – 15-bit pseudo-random code used to uniquely identify CDMA base station sectors in a network
- Short PN Code Offset** – See PN Code Offset
- Sync Channel** – Walsh code channel 32 in the CDMA forward channel which transports the synchronization message to the mobile
- System Identification (SID)** – Number uniquely identifying a cellular system
- Temporary Mobile Station Identity (TMSI)** – Temporary mobile station identification assigned by the base station
- Time Division Multiple Access (TDMA)** – Multiplexing technique which uses frequency and time to distinguish users
- Traffic Channel** – Communicating path between a mobile station and base station used to transport call content and commands

## Glossary Guide

- Uplink – See Reverse Link**
- Visitor Location Register (VLR)** – Database containing mobile subscriber information for mobiles active in the local system but registered in another cellular system
- Walsh Codes** – 64 orthogonal codes used to define CDMA communication subchannels on the forward link

CELESTINE 00453

CONOPS/  
Legal

FBICELL-219

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WITT

## CONOPS Case Studies

[Redacted]

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### Recent Case Studies - Sample Case 1

Background: • WITT contacted to help [Redacted]  
[Redacted]

[Redacted]

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CELL/STD 004404

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Recent Case Studies—Sample Case 2

Background: • WITT contacted to help [redacted]  
[redacted]

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Recent Case Studies—Sample Case 3

Background: • WITT contacted to help [redacted]  
[redacted]

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CELL/DTD 004605

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Recent Case Studies - Sample Case 4

Background: • WITT contacted to help [redacted]  
[redacted]

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CELL/STD COMM/00

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FBICELL-222

FEDERAL BUREAU OF INVESTIGATION  
FOI/PA  
DELETED PAGE INFORMATION SHEET  
FOI/PA# 1226796-0

Total Deleted Page(s) = 113

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[REDACTED] (FBI)

From: [REDACTED] (OTD) (FBI)  
Sent: Wednesday May 16 2007 9:23 AM  
To: [REDACTED]  
Subject: [REDACTED]

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UNCLASSIFIED  
NON-RECORD

I have contacted Harris, and they are looking into the situation. This was looked into as part of [REDACTED]

I'll forward their (Harris) answer to all.

-----Original Message-----  
From: [REDACTED]  
Sent: Monday, May 14, 2007 1:09 PM  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: [REDACTED]

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UNCLASSIFIED

UNCLASSIFIED

CELL/OTD 000999

[REDACTED] (OTD) (FBI)

From: [REDACTED] (OTD) (FBI)  
Sent: Thursday, July 05, 2007 10:30 AM  
To: [REDACTED]

Cc: [REDACTED]  
Subject: 2007 WITT Conference (Cell Phone Tracking)

UNCLASSIFIED  
NON-RECORD

Comrades,

Last week I attended the 2007 WITT Conference. Many cell tracking matters were discussed. Since we all hate e-mail, I am going to pick the top 15 bullets and try to keep it short. Please feel free to forward this info to [REDACTED]  
[REDACTED] And if you don't want to read it, you don't hurt my feelings.

b4  
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[REDACTED]  
(OTD) (FBI)  
From: [REDACTED]  
Sent: Monday, April 16, 2007 10:48 AM  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: [REDACTED]

b3  
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b7E

SENSITIVE BUT UNCLASSIFIED  
NON-RECORD

[REDACTED]  
Thanks for taking the initiative to help the office out with this service. mpk

SSA [REDACTED]

[REDACTED]  
b6  
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-----Original Message-----

From: [REDACTED]  
Sent: Thursday, April 12, 2007 2:21 PM  
To: [REDACTED]

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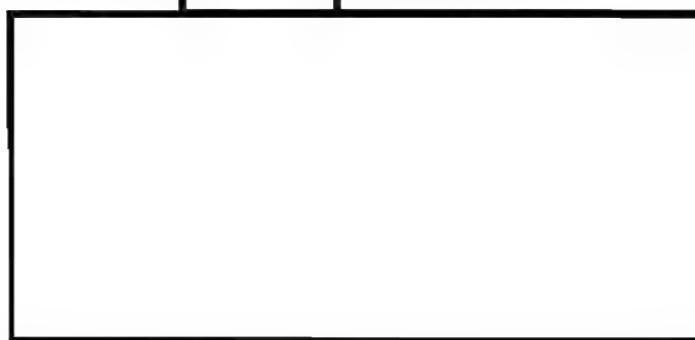
Subject: [REDACTED]

For those of you who send out administrative subpoenas for telephone subscriber information, [REDACTED]

[REDACTED] As most of you are aware, a consumer is entitled to take their phone number to any phone company they so choose. [REDACTED]

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<< File  EC.wpd >>



**SENSITIVE BUT UNCLASSIFIED**

CELL/OTD 000993

[REDACTED] (OTD) (FBI)

From: [REDACTED]  
Sent: Friday, April 27, 2007 10:14 AM  
To: [REDACTED]

b3  
b6  
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Cc: [REDACTED]

Subject: New [REDACTED] for StingRa [REDACTED]

UNCLASSIFIED  
NON-RECORD

Please note that the installation guide to upgrade your Harris equipment is included [REDACTED] if you are experiencing difficulty whereby the [REDACTED] [REDACTED] Please contact and email [REDACTED]

us the serial number of your equipment [REDACTED] [REDACTED] [REDACTED] Stingray [REDACTED]

[REDACTED] Harris [REDACTED] [REDACTED] [REDACTED] [REDACTED]

[REDACTED] We will provide a workaround solution [REDACTED] to those limited few that experience this problem. [REDACTED]

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UNCLASSIFIED

CELL/OTD 000994

From: [REDACTED]  
Sent: [REDACTED]  
To: [REDACTED]

Monday, April 30, 2007 10:08 AM

Subject: Additional Info on [REDACTED] for StingRay [REDACTED]

UNCLASSIFIED  
NON-RECORD

Please attempt to perform the install of the [REDACTED] StingRay [REDACTED] unit first before updating the [REDACTED] step as described below, [REDACTED] then [REDACTED] and report to us the problem and provide us the serial number of your equipment. Do not attempt to [REDACTED] is not successful.

Please report to WITT when the [REDACTED] is completed so that we can document the procedure. Offices that do not report in will be assume to have not completed [REDACTED]

Thanks,

---Original Message---

From: [REDACTED]  
Sent: Friday, April 27, 2007 10:14 AM  
To: [REDACTED]

CELL/OTD 000995

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b6  
b7C  
b7E

b6  
b7C

Cc: [REDACTED]  
Subject: New [REDACTED] for StingRay [REDACTED]

b3  
b6  
b7C  
b7E

**UNCLASSIFIED**  
**NON-RECORD**

Please note that the installation guide to upgrade your Harris equipment is included [REDACTED] if you are experiencing difficulty whereby the [REDACTED] please contact and email us the serial number of your equipment [REDACTED]

[REDACTED]  
[REDACTED] We will provide a workaround solution to those limited few that experience this problem.

**UNCLASSIFIED**

**UNCLASSIFIED**

CELL/OTD 000996

From: [REDACTED]  
Sent: Wednesday, May 09, 2007 1:22 PM  
To: [REDACTED]

Subject: [REDACTED] and other guidance)

**SENSITIVE BUT UNCLASSIFIED**  
**NON-RECORD**

FYI

Just passing on some information about using a [REDACTED]  
[REDACTED] If you all have time to verify some of the below information, please do so. Feedback is the best way to  
figure out where the loop-holes are.

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- This means that you should not incur the [REDACTED]

- I verified the above information on the [REDACTED] If you have a  
chance to buy some [REDACTED] and are able to do the same kind of testing, please do and send  
feedback [REDACTED]

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- [REDACTED]
- [REDACTED]

Thanks to everyone involved so far.

[REDACTED]

CELL/OTD 000997

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SENSITIVE BUT UNCLASSIFIED

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CELL/OTD 027706

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CELL/OTD 028079

FBICELL-243

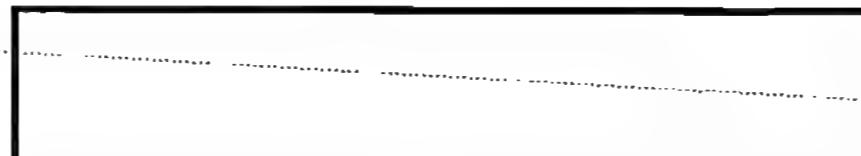
23-Mar Travel (Arrive)  
 Inform Coordinator of arrival / Issues  
 Equipment Delivery  
 24-Mar 830 Arrive / Introductions  
 900 Scenario Description 5  
 Goals / Objectives 10  
 Pre-Deployment Functions 5  
 1000 Break  
 1015 [redacted]  
 1100 [redacted]  
 1200 Lunch (1.5 HOURS)  
 1330 [redacted]  
 1430 [redacted]  
 1530 [redacted]  
 1630 [redacted]  
 25-Mar 830 Arrive / Issues  
 900 [redacted]  
 1100 [redacted]  
 1200 Lunch (1.5 HOURS)  
 1330 [redacted]  
 1630 [redacted]  
 26-Mar 830 Arrive Station  
 ?? [redacted]  
 27-Mar 830 ?? [redacted]  
 28-Mar 1200 Lunch (1.5 HOURS) [redacted]  
 2100 Event [redacted]  
 29-Mar NO EVENT [redacted]  
 30-Mar 830 Arrive / Issues  
 900 [redacted]  
 1100 [redacted]  
 1200 Lunch (1.5 HOURS)  
 1330 In-house Demonstrations / Exercises  
 1630 End  
 31-Mar Practice Sessions  
 1-Apr Practice Sessions  
 2-Apr Practice Sessions / Pickup (Noon)  
 3-Apr Travel (Return)

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CELL/OTD 004543

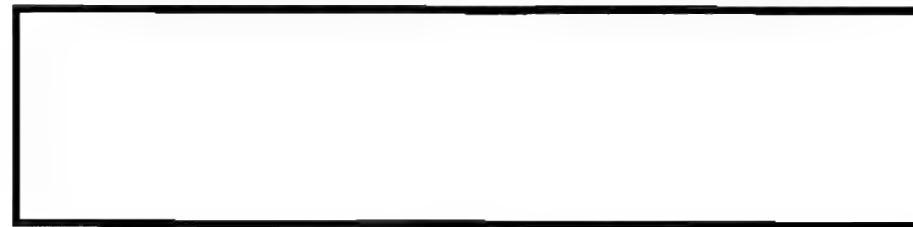
~~SECRET//ORCON/NOFORN//20350319~~

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By

FEDERAL BUREAU OF INVESTIGATION



2010

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CLASSIFIED BY 65179 DMH/STW  
REASON: 1.4 (C, G)  
DECLASSIFY ON: 11-26-2037  
DATE: 11-26-2012

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED EXCEPT  
WHERE SHOWN OTHERWISE

Approved by \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reviewed by \_\_\_\_\_

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*This document contains information that, in whole or in part, are  
controlled by originator, and not to be disseminated without prior  
approval from the Federal Bureau of Investigation.*

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CELL/O TD 019338

FBICELL-259

## S&T: FBI FY 2009 Mid-Year Review: Performance Report

Initiative Topic:

ALL INFORMATION CONTAINED  
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Key Project, Sub-Project, or Other Component Part of Initiative	Baseline FY 2009 Funding (\$K)*	% Obligated* Includes Committed	% Expended*	Project's Contribution to Initiative
		100%	0%	
		100%	0%	
		100%	0%	
		100%	0%	
		100%	0%	
		100%	0%	

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~~SECRET~~

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## *Critical Unfunded*

Unit:	TTU
Short Title:	WIRELESS INTERCEPT AND TRACKING TEAM (WITT)
Shortfall Amount:	
Account(s):	
Cost Center:	
One-Time or Recurring Requirement	
Existing Contract(s):	YES
Unit Rank:	1
SC Rank:	
AD Rank:	

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**Description of your shortfall:**

specific amplifiers. This request shall provide capability not currently available and identified as a critical gap in locating/tracking wireless devices.

**Why is this critical?**

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CELL/OTD 008061

[Redacted]

**Why can't you cover this with your current base funding?** [Redacted]

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[Redacted] although has insufficient funding available to cover [Redacted]

[Redacted] The cost of [Redacted]

[Redacted] far exceeds current base funding as required.

**What is the impact if you are unable to obtain funding for this?**

[Redacted]

CELL/OTD 008062

FBICELL-262

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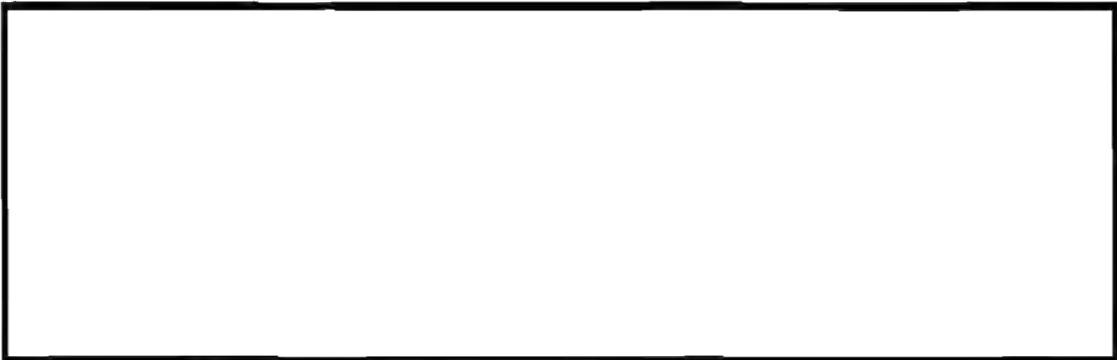
U.S. Department of Justice

Federal Bureau of Investigation

Washington, D.C. 20535-0001

[DATE], 20[YY]

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HEREIN IS UNCLASSIFIED  
DATE 11-02-2012 BY 65179 DMK/STW b7E



Re: [REDACTED] and Non-  
Disclosure Obligations

**LAW ENFORCEMENT SENSITIVE (LES):** The information in this document is the property of the Federal Bureau of Investigation (FBI) and may be distributed within the Federal Government (and its contractors), U.S. intelligence, law enforcement, public safety or protection officials and individuals with a need to know. Distribution beyond these entities without FBI Operational Technology Division authorization is prohibited. Precautions should be taken to ensure this information is stored and/or destroyed in a manner that precludes unauthorized access. Information bearing the LES caveat may not be used in legal proceedings without first receiving authorization from the originating agency. Recipients are prohibited from subsequently posting the information marked LES on a website on an unclassified network.

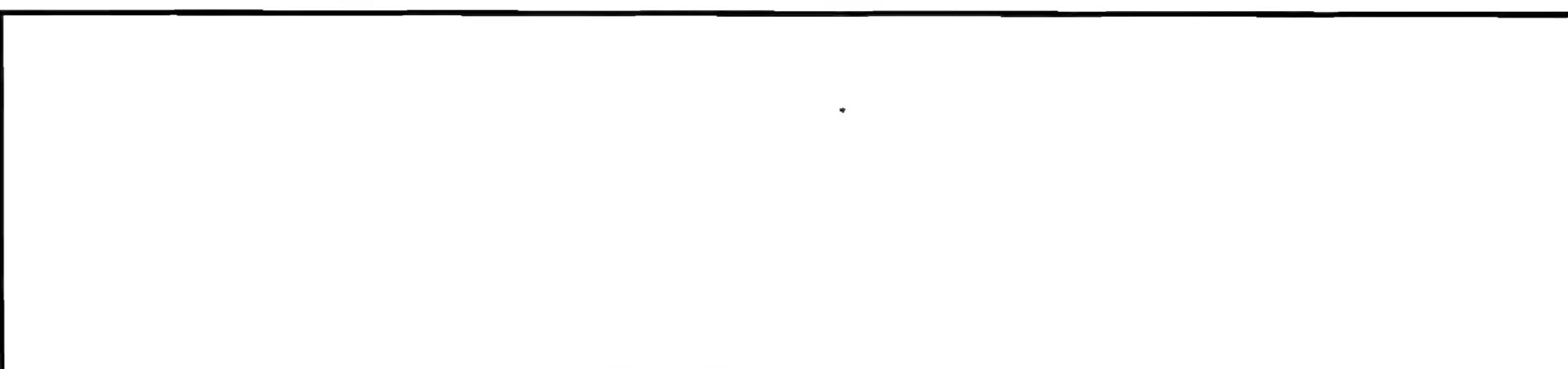
Dear [REDACTED]

We have been advised by [REDACTED] of the [REDACTED]

[REDACTED] Consistent with the conditions on the equipment

[REDACTED] must coordinate with the Federal Bureau of  
Investigation (FBI) to complete this non-disclosure agreement

b7E



UNCLASSIFIED//FOR OFFICIAL USE ONLY//LAW ENFORCEMENT SENSITIVE

Page 1 of 6

CELL/OTD 014560

FBICELL-263

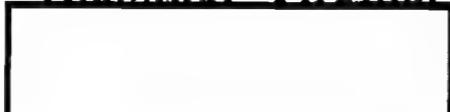
UNCLASSIFIED//FOR OFFICIAL USE ONLY//LAW ENFORCEMENT SENSITIVE



b7E

and

Unit Chief  
Tracking Technology Unit  
Operational Technology Division  
Federal Bureau of Investigation  
Engineering Research Facility  
Building 27958A, Pod B  
Quantico, Virginia 22135



UNCLASSIFIED//FOR OFFICIAL USE ONLY//LAW ENFORCEMENT SENSITIVE

Page 5 of 6

CELL/OTD 014564

FBICELL-267

UNCLASSIFIED//FOR OFFICIAL USE ONLY//LAW ENFORCEMENT SENSITIVE

The [redacted] s acceptance of the above conditions shall be  
evidenced by the signatures below of an authorized representative [redacted]  
[redacted]

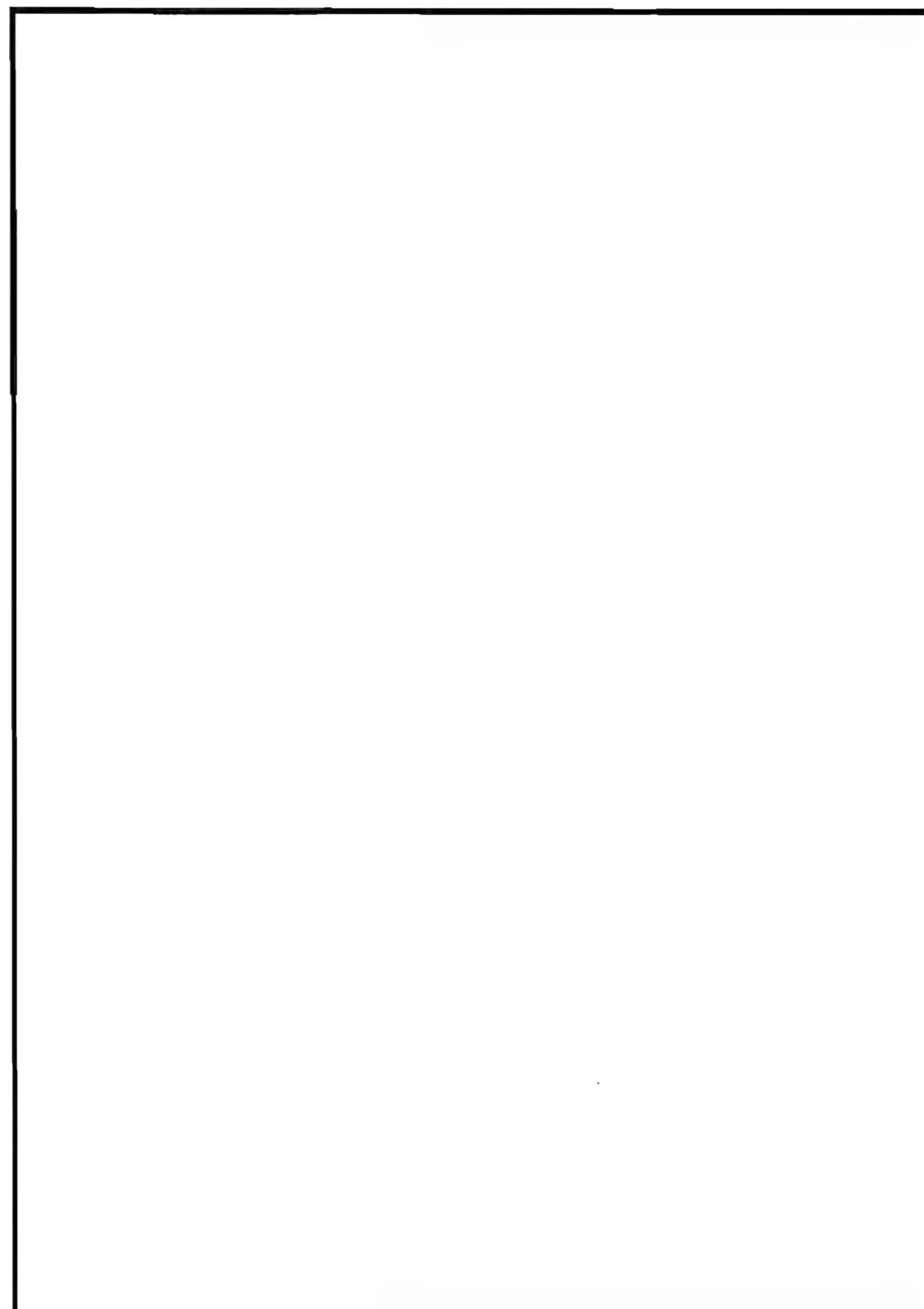
b7E

Sincerely,

Amy S. Hess  
Assistant Director  
Operational Technology Division  
Federal Bureau of Investigation

Acknowledged and agreed to this \_\_\_\_\_ day of \_\_\_\_\_ [redacted]

b7E



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Page 6 of 6

CELL/OTD 014565

FBICELL-268

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## STATE/INDEP/RK



## FBI Project Reviews



# Tracking Technology Unit

CELLOID 009878

b6  
b7c

b3  
b7E

## THE CLOTHES-MAKERS.

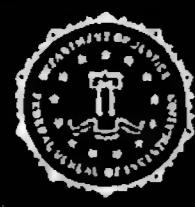
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CLASSIFIED BY: 65179 BMH/STW  
RERSON: 1.4 (C, E)  
DECLASSIFY ON: 11-14-2037  
DATE: 11-14-2012

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED EXCEPT  
WHERE SHOWN OTHERWISE

FBICELL-269

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**FBI001:**

CREATE DEM



(S/NF)

OVERVIEW

Text – Arial 14

628600 010/110

A

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FBICELL-270

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b7E

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**FBI001:**

5010.11/NOFORN



(S//NF)

PROJECT IDENTIFICATION

PERFORMANCE SUMMARY

(S)

b3  
b7E

b1  
b3  
b7E

CELL/010 0088600

COST/FUNDING (,000)

RISKS & ISSUES

b1  
b3  
b7E

(S)

B

**Risks:**  
Text – Arial 14

**Issues:**  
Text – Arial 14

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FBICELL-271

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FBI001:



(S/NF) DEPENDENCIES & COLLABORATION

## SCHEDULE

{5}

Text – Arial 14

‘b3  
b7E

b1  
b3  
b7E

CELL/070 09881

C

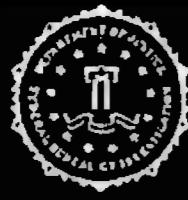
## MISSION IMPACTS & SUCCESSES

## **Mission Impacts:** Text – Arial 14

## Success Stories: Text – Arial 14

**SECRET**

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**FBI001:** [Redacted]

NETINFOFORM



(S//NF)

**DELIVERABLES**

(S)

**Deliverable Description:**  
Text – Arial 14

**Quantity:**

Customers	Deliverable Type	Capability Maturity Level	Maturity Date
Text – Arial 10			

**TECHNICAL PERFORMANCE**

Text – Arial 14

CELL/0000882

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• b3  
b7E

b1  
b3  
b7E

FBICELL-273

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**FBI015:**



(S//NF)

OVERVIEW

b3  
b7E

Text – Arial 14

CELL/VOIP NUMBER

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FBICELL-274

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**FBI015:**

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(S//NF)

PROJECT IDENTIFICATION

PERFORMANCE SUMMARY

b3  
b7E

COST/FUNDING (.000)	RISKS & ISSUES
	<p><b>Risks:</b> Text – Arial 14</p> <p><b>Issues:</b> Text – Arial 14</p>

b1  
b3  
b7E

b1  
b3  
b7E

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FBICELL-275

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**FBI015:**

(S//NF) DEPENDENCIES & COLLABORATION

SCHEDULE



b3  
b7E

**Collaboration\Level:**  
N/A

Text – Arial 14

b1  
b3  
b7E

CUSTOMERS & REQUIREMENTS

**Customers/Users:**  
OTD/TTU

**Requirements:**

MISSION IMPACTS & SUCCESSES

**Mission Impacts:**  
Text – Arial 14

**Success Stories:**  
Text – Arial 14

CELL/010 009885

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FBICELL-276

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SAC/CHICAGO



(S//NF)

**DELIVERABLES****Deliverable Description:**  
Text – Arial 14**Quantity:**

Customers	Deliverable Type	Capability Maturity Level	Maturity Date
Text – Arial 10			

**TECHNICAL PERFORMANCE**

Text – Arial 14

CELL/0000000000000000

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b7Eb1  
b3  
b7E

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**FBI016:** [REDACTED]

SEARCHED  
INDEXED  
SERIALIZED  
FILED



(S//NF)

OVERVIEW

Text – Arial 14

200600 QM 123

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FBICELL-278

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**FBI016:** [REDACTED]



(S//NF)

PROJECT IDENTIFICATION

PERFORMANCE SUMMARY

(S)

b1  
b3  
b6  
b7C  
b7E

CELL#0000000000000000

COST/FUNDING (,000)

RISKS & ISSUES

**Risks:**  
Text – Arial 14

**Issues:**  
Text – Arial 14

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b1  
b3  
b7E

FBICELL-279

~~SECRET~~



FBI016: [REDACTED]



(S/NF) DEPENDENCIES & COLLABORATION

SCHEDULE

(S)

Text – Arial 14

b1  
b3  
b7E

**Collaboration\Level:**  
N/A

CUSTOMERS & REQUIREMENTS

MISSION IMPACTS & SUCCESSES

**Customers/Users:**  
OTD/TTU

**Mission Impacts:**  
Text – Arial 14

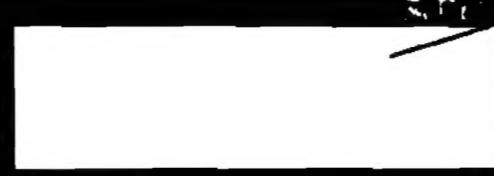
**Requirements:**

**Success Stories:**  
Text – Arial 14

C

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FBICELL-280

~~SECRET~~**FBI016:**

(S//NF)

DELIVERABLES

S1

b1  
b3  
b7E**Deliverable Description:**

Text – Arial 14

**Quantity:**

Customers	Deliverable Type	Capability Maturity Level	Maturity Date
Text – Arial 10			

**TECHNICAL PERFORMANCE**

Text – Arial 14

682400 QLPTED

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SECRET

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